Table 1 **Level 4 Class Attribute Change Table**   (RTM of 11/8/96)   CCR 96-1354A

L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
S-CLS-00220	8071	~~B~~ B0	functional	incremental	test			The DESKT CI shall provide users the capability to copy the reference to objects for a desktop object.
S-CLS-00240	8073	~~B~~ B0	functional	incremental	test			The DESKT CI shall provide users the capability to deep copy a desktop object.
S-CLS-00260	8075	~~B~~ B0	functional	incremental	test			The DESKT CI shall provide users the capability to obtain desktop object data associated with desktop objects.
S-CLS-00270	8076	~~B~~ B0	functional	incremental	test			The DESKT CI shall provide users the capability to update desktop object data associated with desktop objects.
S-CLS-00280	8077	~~B~~ B0	functional	incremental	test			The DESKT CI shall provide users the capability to list the available services associated with any desktop object.
S-CLS-00295	8079	~~B~~ B0	functional	incremental	test			The DESKT CI shall provide users the capability to unbind a service from a desktop object.
S-CLS-00310	8081	B	functional	incremental	test			The DESKT CI shall provide users the capability to generate an exchangeable (i.e., file based) form for desktop objects.
S-CLS-00320	8082	B	functional	incremental	test			The DESKT CI shall provide users the capability to generate a desktop object from an externalized (i.e., file-based) format.
S-CLS-00350	8085	~~B~~ B0	functional	incremental	test			The DESKT CI shall provide users the capability to iteratively apply operations to each of the objects in a desktop container.
S-CLS-00360	8086	~~B~~ B0	functional	incremental	test			The DESKT CI shall provide users the capability to search container objects for objects which satisfy a user specified Search Criteria.
S-CLS-00410	8091	~~B~~ B0	functional	incremental	test			The DESKT CI shall provide the users the capability to list object types supported by a specific application or service class.
S-CLS-00420	8092	~~B~~ B0	functional	incremental	test			The DESKT CI shall provide the users the capability to list applications or service classes supported by a specific object type.
S-CLS-00430	8093	B	functional	incremental	test			The DESKT CI shall provide the users the capability to add applications or services supported by a specific object type.
S-CLS-		B	functional	incremental	test			The DESKT CI shall provide the users the

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L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
00440	8094	<u>B0</u>						capability to remove applications or services supported by a specific object type.
S-CLS-00450	8095	B	functional	incremental	test			The DESKT CI shall provide users the capability to install an application interface (i.e., an application and its parameterized interface description).
S-CLS-00460	8096	B	functional	incremental	test			The DESKT CI shall provide users the capability to remove an application interface.
S-CLS-00470	8097	B	functional	incremental	test			The DESKT CI shall provide users the capability to obtain the attributes associated with an application interface.
S-CLS-00490	8098	B	functional	incremental	test			The DESKT CI shall provide users the capability to modify the attributes associated with an application interface.
S-CLS-00640	8099	B	functional	incremental	test			The DESKT CI shall provide users the capability to obtain a description of the interaction between the Workbench and specified tools.
S-CLS-00790	8100	B	functional	incremental	test			The DESKT CI shall provide users the capability to transition from the user session currently active on the desktop to another user session, by means of a single mouse click.
S-CLS-01360	8101	B	functional	incremental	test			The DESKT CI shall provide users the capability to mail desktop objects
S-CLS-01450	8102	B	functional	incremental	test			Desktop objects shall utilize a <TBD> external format.
S-CLS-01460	8103	B	functional	incremental	test			Desktop object references shall be in <TBD> format.
S-CLS-01492	9769	~~B~~ <u>B0</u>	functional		dem o			The DESKT CI executables shall run on the following hosts: a. DEC Digital Unix 4.0 b. HP UX 10.01 c. SGI IRIX 6.2 (64 bit) d. IBM RS/6000 AIX 4.1
S-CLS-01550	8106	~~B~~ <u>B0</u>	functional	incremental	test			The DESKT CI shall provide the user the capability to copy ECS services onto his desktop, iconize them, and save them as desktop objects.
S-CLS-01555	8107	~~B~~ <u>B0</u>	functional	incremental	test			The DESKT CI shall have capability to prompt user for confirmation when a user attempts

L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
								addition, modification or deletion of an object.
S-CLS-01560	8108	B B0	functional	incremental	test			The DESKT CI shall provide the user the capability to access a service via the previously saved desktop object representing that service.
S-CLS-01620	1012 3	B B0	functional	incremental	dem o			The DESKT CI shall provide users the ability to directly manipulate icon positioning and to save the icon positioning.
S-CLS-01700	9859	B B0	functional	approved	test			The DESKT CI mode-specific applications shall access data only for the mode in which the application is configured.
S-CLS-01710	9860	B B0	functional	approved	test			The DESKT CI shall include the mode identifier in activity log record entries for cost and accounting data.
S-CLS-01740	9861	B B0	functional	approved	test			The DESKT CI mode-specific applications shall be capable of simultaneous execution in different modes on the same machine.
S-CLS-01750	9862	B B0	functional	approved	test			The DESKT CI mode-specific applications shall be capable of simultaneous execution in different modes on different machines.
S-CLS-01760	9863	B B0	functional	approved	test			DESKT CI server applications shall register within their mode-associated namespace in the CSS name service.
S-CLS-01770	9864	B B0	functional	approved	test			DESKT CI client applications shall incorporate a mode identifier for CSS name service lookups.
S-CLS-01780	9865	B B0	functional	approved	test			The DESKT CI shall be capable of using simulated time values supplied by CSS when executing in a non-production mode.
S-CLS-01790	9866	B B0	functional	approved	test			DESKT CI mode-specific executables and scripts shall accept a specific mode only at startup.
S-CLS-10010	8109	B B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to compose Search Requests based on product specific and core metadata attributes.
S-CLS-10070	8110	B B0	functional	incremental	test			The WKBCH CI shall support point-and-radius criteria for query of geographic Metadata by text and graphical input.
S-CLS-10075	8111	B B0	functional	incremental	test			The WKBCH CI shall support point criteria for query of geographic Metadata by text and graphical input.

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L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
S-CLS-10080	8112	~~B~~ B0	functional	incremental	test			The WKBCH CI shall support polygonal coordinate criteria for query of geographic Metadata by graphical input.
S-CLS-10090	8113	~~B~~ B1	functional	incremental	test			The WKBCH CI shall support query of geographic Metadata by geographic name by text input.
S-CLS-10130	8114	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to use boolean operators to relate query parameters for geographic and non-geographic Metadata.
S-CLS-10140	9571	~~B~~ B1	functional	incremental	test			The WKBCH CI shall support wildcard construct (prefix, embedded, suffix) matching criteria for query of alpha-numeric non-geographic Metadata.
S-CLS-10150	9573	~~B~~ B1	functional	incremental	test			The WKBCH CI shall support character range matching criteria for query of alpha-numeric non-geographic Metadata.
S-CLS-10160	9575	~~B~~ B1	functional	incremental	test			The WKBCH CI shall support logical and boolean operators matching criteria for query of alpha-numeric non-geographic Metadata.
S-CLS-10170	8118	~~B~~ B1	functional	incremental	test			The WKBCH CI shall support min/max range Search Criteria for query of numerical non-geographic Metadata.
S-CLS-10175	9606	~~B~~ B1	interface		test			The WKBCH CI shall support SQL syntax for queries on Advertising.
S-CLS-10180	8119	~~B~~ B1	functional	incremental	test			The WKBCH CI shall support any combination of exact word match, exact phrase match, character set, wildcard, character range, logical and boolean operator, and min/max range Search Criteria for query of non-geographic Metadata.
S-CLS-10190	1022 9	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to compose searches across multiple data sets for coincident occurrences of data in space, time, or any other searchable core Metadata attribute(s).
S-CLS-10200	8121	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to search and view a products processing history.

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L4 id	req_key	rel	req_type	req_status	ver_met	ver_status	clarification	text
S-CLS-10210	8122	B	functional	incremental	test			The WKBCH CI shall provide users the capability to search for Science Processing Library holdings
S-CLS-10220	10211	B	functional	incremental	test			The WKBCH CI shall allow users to formulate a Product Request based on the results of searching the inventory core metadata attributes and inventory product specific metadata attributes.
S-CLS-10230	10212	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to preview billing costs for non-EOSDIS Data Products prior to Product Request submission.
S-CLS-10240	8125	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to request subsetted, subsampled, and summary products.
S-CLS-10250	8126	~~B~~ B1	functional	incremental	test			The WKBCH CI shall automatically provide the user an estimate of how long it will take before products are ready for delivery.
S-CLS-10260	10213	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability for authorized users to issue Product Requests for Data Products that are generated on demand.
S-CLS-10280	8128	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to create, cancel, renew, update and list the contents of Subscriptions, including standing requests.
S-CLS-10300	9577	~~B~~ B1	functional	incremental	demo			The WKBCH CI shall provide visual overlays to aid in the selection of spatial data and to enhance the display of geographic metadata.
S-CLS-10310	8129	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability of positioning the cursor by entering an image X,Y coordinate.
S-CLS-10320	8130	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the option to display Latitude/Longitude pairs as symbols, displayed in their proper geolocation on all visualizations produced by the WKBCH CI.
S-CLS-10460	8131	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users Lat/Long lists for the production of built-in vector overlays as part of the application.
S-CLS-		~~B~~	functional	incremental	test			The WKBCH CI shall provide users the

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L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
10470	8132	~~B0~~						capability to display browse information in vector graphic format.
S-CLS-10480	8133	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide the capability of displaying ECS supported visualization data as a series of lineplots.
S-CLS-10490	8134	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide the capability of displaying a horizontal or vertical profile through a pseudocolor image.
S-CLS-10500	8135	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide the capability of displaying multi-dimensional arrays of data as a series of two-dimensional pseudocolor images.
S-CLS-10510	8136	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability of importing color palettes.
S-CLS-10520	8137	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability for modifying the color palette.
S-CLS-10530	8138	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability of modifying the pseudocolor mapping by changing the data min/max values.
S-CLS-10540	8139	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability of modifying the pseudocolor mapping by adaptive equalization.
S-CLS-10550	8140	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability of calculating summarizing statistics of multi-dimensional arrays of EOS data.
S-CLS-10560	8141	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability of calculating summarizing statistics of user-selected columns from tables of values of EOS data.
S-CLS-10600	8145	~~B~~ B0	functional	incremental	test			The WKBCH CI shall display the Latitude and Longitude coordinates of the cursor, when the cursor is inside an EOS Grid array.
S-CLS-10610	8146	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability of positioning the cursor by entering a Latitude/Longitude value.
S-CLS-10615	8147	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability of positioning the cursor by entering instrument scan line.
S-CLS-10630	8148	~~B~~ B1	functional	incremental	test			The system shall provide users a Training Option

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L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
S-CLS-10640	8149	~~B~~ B1	functional	incremental	test			The Training option shall consist of simulated user sessions for identifying, searching for and obtaining data and services.
S-CLS-10730	8150	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to search data dictionary information to obtain the precise definitions of terms used within ECS.
S-CLS-10860	8152	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to display processing schedules.
S-CLS-10870	8153	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to display data acquisition plans and schedules.
S-CLS-10880	8154	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to display documentation on data formats and Metadata standards.
S-CLS-10882	9598	~~B~~ B0	functional		test			The WKBCH CI shall provide users the capability to display climatology information.
S-CLS-10884	9605	~~B~~ B0	functional		test			The WKBCH CI shall provide users the capability to display geographic reference aids.
S-CLS-10890	8155	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to display ESDIS Project Policies and Procedures.
S-CLS-10930	8156	B	functional	incremental	test			The WKBCH CI shall provide users the capability to search inventory based on any combination of the inventory core metadata attributes and inventory product specific metadata attributes.
S-CLS-10950	8157	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to submit Subscription Requests for periodic delivery of data described by Advertisements.
S-CLS-10970	8158	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide the capability for the user to request standard product software and associated documentation to be distributed on-line.
S-CLS-10980	8159	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide the capability for the user to request standard product software and associated documentation to be distributed off-

L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
								line (i.e. media).
S-CLS-11000	8160	B̶ B1	functional	incremental	test			The WKBCH CI shall provide the capability to submit Subscription Requests for on-demand processing of ECS data by pre-existing processes.
S-CLS-11010	8161	B̶ B0	functional	incremental	test			The WKBCH CI shall automatically provide the capability to confirm or reject a Data Request.
S-CLS-11020	8162	B̶ B1	functional	incremental	test			The WKBCH CI shall provide users Data Request Status at the conclusion of the processing of a Data Requests.
S-CLS-11030	8163	B̶ B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to determine reprocessing status of products which are being reprocessed.
S-CLS-11040	9553	B̶ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to obtain data processing Status during the processing of a request initiated by the user.
S-CLS-11050	8165	B̶ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to obtain and review User Session Logs for their own sessions.
S-CLS-11060	8166	B̶ B0	functional	incremental	test			The WKBCH CI shall provide science users the capability to obtain Distribution Request Status for user-initiated Distribution Requests.
S-CLS-11080	9555	B̶ B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to request and receive their current account balance.
S-CLS-11090	8168	B̶ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to display their account history.
S-CLS-11100	9562	B̶ B0	interface	incremental	test			The WKBCH CI shall accept from the users user feedback information, on product data quality assessment and output it to the DAAC originating the data.
S-CLS-11110	8170	B̶ B0	interface	incremental	test			The WKBCH CI shall accept from the users user feedback information, on schedule performance assessment and output it to the SMC.
S-CLS-11120	8171	B̶ B0	interface	incremental	test			The WKBCH CI shall accept from the users user feedback information, on ECS service quality evaluation and output it to the SMC.
S-CLS-		B̶	functional	incremental	test			The WKBCH CI shall provide the capability for

L4 id	req_key	rel	req_type	req_status	ver_met	ver_status	clarification	text
11140	8173	~~B~~ B1						users to update Distribution Requests prior to the shipment of Data.
S-CLS-11150	8174	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide product delay notification to users to notify them when products will not be distributed within the estimated time.
S-CLS-11160	10214	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide authorized users the capability to request priority processing of Product Requests for on-demand products.
S-CLS-11170	8176	~~B~~ B1	functional	incremental	test			The WKBCH CI shall display to users a processing status message to confirm or reject a Production Request.
S-CLS-11190	8177	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to submit a Conflict Adjudication Request to the SMC, in the event a processing conflict cannot be resolved between the SDSRV CI, the science user, and the Data Processing Subsystem.
S-CLS-11200	8178	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users a Conflict Adjudication Response from the SMC after submitting a Conflict Adjudication Request.
S-CLS-11210	8179	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users a Notification when requests for data processing will not be completed within the estimated time.
S-CLS-11220	10215	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to issue Product Requests for the ad-hoc processing of subsetted, subsampled, and summary products based on geographical location (x, y, z - spatial with rectangular boundaries).
S-CLS-11230	10216	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to issue Product Requests for the ad-hoc processing of subsetted, subsampled, and summary products based on spectral band.
S-CLS-11240	10217	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to issue Product Requests for the ad-hoc processing of subsetted, subsampled, and summary products based on time.
S-CLS-		~~B~~	functional	incremental	test			The WKBCH CI shall provide a capability to

L4 id	req_key	rel	req_type	req_status	ver_met	ver_status	clarification	text
11250	8183	B1						submit Subscription Requests for the distribution of ECS data.
S-CLS-11260	8184	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide the capability for users to update Subscriptions for the distribution of ECS data.
S-CLS-11270	8185	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to terminate their Subscriptions for on demand processing.
S-CLS-11280	8186	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to modify their Subscriptions for on demand processing.
S-CLS-11285	8187	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to create documents in HTML format.
S-CLS-11290	8188	B	functional	incremental	test			The WKBCH CI shall provide a capability to translate user input Search Criteria into ECS internal query language.
S-CLS-12070	8189	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide a GUI interface with capability to save and restore the contents of data search and order forms.
S-CLS-12110	8190	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide a GUI interface with a command language.
S-CLS-12480	11658	~~B~~ B0	functional	incremental	test	unverified		The WKBCH CI shall provide the capability to request any of the services available for the individual items in the output of a Metadata search.
S-CLS-12500	8192	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users an interface to APIs for use in non-interactive remote user sessions.
S-CLS-12530	10218	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to simultaneously view Search Results and Product Requests.
S-CLS-12540	8194	~~B~~ B0	functional	incremental	test			The WKBCH CI shall support multiple concurrent user sessions.
S-CLS-12550	8195	~~B~~ B0	functional	incremental	test			The WKBCH CI shall support multiple concurrent Service Requests.
S-CLS-12570	8197	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users interactive user sessions.
S-CLS-		~~B~~	functional	incremental	test			The WKBCH CI shall provide a user session

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12580	8198	~~B~~ B1						management capability to transition between user sessions.
S-CLS-12670	8199	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to enable the logging of Service Requests, Service Request Status, and Notifications to the User Session Log.
S-CLS-12680	8200	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to disable logging to the User Session Log.
S-CLS-12690	8201	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to replay the User Session Log.
S-CLS-12700	8202	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to obtain information about all their user sessions.
S-CLS-12720	8203	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to rebuild a user session context.
S-CLS-12730	8204	~~B~~ B0	functional	incremental	test			The WKBCH CI shall be able to accept Notifications of events associated with Service Requests or sessions
S-CLS-12740	8205	~~B~~ B0	functional	incremental	test			The WKBCH CI shall be able to display such event Notifications to the user and accept input from the user where these events require instructions from the user, e.g., when a request exceeds a client specified threshold, and provide such feedback to the service which sent the event..
S-CLS-12750	9594	~~B~~ B1	functional	incremental	dem o			The WKBCH CI shall provide users the capability to define default instructions for such events, by type of event and session..
S-CLS-12760	8206	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to suppress the display of event Notifications if the Notifications do not require user input or if the user has defined default instructions, by type of event and session..
S-CLS-12770	9595	~~B~~ B1	functional	incremental	dem o			The WKBCH CI shall provide users the capability to modify and remove default instructions and rescind the directive to suppress event Notification, by type of event and session..

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L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
S-CLS-12780	9593	~~B~~ B1	functional	incremental	demo			The WKBCH CI shall provide the default instructions defined by the user in response to an event if the the user has requested that the event Notification be suppressed.
S-CLS-12800	8207	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide a capability to interactively display interrupt messages.
S-CLS-12810	8208	B	functional	incremental	test			The WKBCH CI shall provide a dumb terminal interface with minimal and consistent use of non-standard keys.
S-CLS-12820	8209	B	functional	incremental	test			The WKBCH CI shall provide a dumb terminal interface with capability to save and restore the contents of a menu or form.
S-CLS-12830	8210	B	functional	incremental	test			The WKBCH CI shall provide a dumb terminal interface with standardized use of commands and terminology across screens.
S-CLS-12840	8211	B	functional	incremental	test			The WKBCH CI shall provide a dumb terminal interface with self-explanatory, meaningful error messages.
S-CLS-12850	8212	B	functional	incremental	test			The WKBCH CI shall provide a dumb terminal interface with availability of a menu tree diagram.
S-CLS-12860	8213	B	functional	incremental	test			The WKBCH CI shall provide a dumb terminal interface with a command language.
S-CLS-12870	8214	B	functional	incremental	test			The WKBCH CI shall support a dumb terminal interface that provides users system access from local and remote dumb terminals.
S-CLS-12908	9596	~~B~~ B0	<u>functional</u>		<u>test</u>			The WKBCH CI shall provide users a capability to submit documents to the guide.
S-CLS-12920	9589	~~B~~ B0	functional	incremental	demo			The WKBCH CI shall provide an option for Expert level of user interaction.
S-CLS-12930	9590	~~B~~ B0	functional	incremental	demo			The Expert level of interaction shall provide direct information input with no automatically supplied help.
S-CLS-12940	9591	~~B~~ B0	functional	incremental	demo			The WKBCH CI shall provide an option for Intermediate level of user interaction.
S-CLS-12950	9592	~~B~~ B1	functional	incremental	demo			The Intermediate level of interaction shall provide prompting and automatically supplied help.
S-CLS-12960	9588	~~B~~ B0	functional	incremental	demo			The WKBCH CI shall provide a Novice level of user interaction.

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L4 id	req_key	rel	req_type	req_status	ver_met	ver_status	clarification	text
S-CLS-12970	8215	~~B~~ B1	functional	incremental	test			The Novice level of interaction shall provide prompting and automatic help facilities for user initiated actions.
S-CLS-13010	8216	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide application program interfaces that will support development of extensions for support of data visualization utilities for DAAC-specific products.
S-CLS-13040	8217	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide application program interfaces that will support development of a local user interface client accessing DAAC-unique Metadata searching services.
S-CLS-13050	8218	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide application program interfaces that will be capable of supporting the development of a local user interface that can bypass the delivered ECS user interface for accessing DAAC-unique Metadata searching services.
S-CLS-13060	8219	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide the user the capability to view the service availability status of all ECS services.
S-CLS-13090	8220	~~B~~ B0	functional	incremental	test			The WKBCH CI shall perform registration of new users from user supplied and default information.
S-CLS-13110	10710	~~B~~ B0	functional	incremental	demo	unverified		The WKBCH CI shall provide registered users with the capability to view their user account priorities, and authorized user services.
S-CLS-13115	8221	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide registered users with the capability to request changes to their user account priorities and authorized user services.
S-CLS-13160	8222	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to terminate user sessions with service providers.
S-CLS-13170	8223	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to initiate user sessions with service providers.
S-CLS-13200	8224	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to obtain the status information about

Table 1 **Level 4 Class Attribute Change Table** (RTM of 11/8/96) CCR 96-1354A

L4 id	req_key	rel	req_type	req_status	ver_met	ver_status	clarification	text
								user sessions with service providers.
S-CLS-13210	8225	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to connect to an existing user session.
S-CLS-13220	8226	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to issue Service Requests within the context of a user session.
S-CLS-13230	8227	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to cancel any time-intensive Service Requests by issuing a Cancellation Request.
S-CLS-13240	8228	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to individually suspend and restore the Service Requests within a user session after interruption.
S-CLS-13250	8229	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to view DAR generation information during the DAR planning and submittal process.
S-CLS-13260	9841	B	functional	incremental	demo			The WKBCH CI shall provide a dumb terminal interface with Valid Value lists for all attributes.
S-CLS-13265	9842	B	functional	incremental	demo			The WKBCH CI Subsystem shall provide ChUI terminal support conforming to VT-100 standards.
S-CLS-13300	9843	B	functional	incremental	demo			The WKBCH CI shall provide users the capability to access text information as plain text documents for dumb terminals.
S-CLS-13352	8230	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide access to USENET newsgroups.
S-CLS-13380	8231	~~B~~ B0	interface	incremental	test			The WKBCH CI shall send User Authentication Requests to the SMC.
S-CLS-13390	9564	~~B~~ B0	functional	incremental	test			The WKBCH CI shall allow or deny the user system access based on User Validation Status returned from the SMC.
S-CLS-13400	8233	~~B~~ B0	functional	incremental	test			The WKBCH CI shall obtain user authentication information from the user.
S-CLS-13460	8234	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to create a Session Profile for each user session. The Session Profile shall be able to contain any of the parameters which are in the User Profile and which may apply as defaults to

L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
								ECS Service Requests.
S-CLS-13470	8235	~~B~~ B0	functional	incremental	test			The user interface shall employ the defaults specified in the Session Profile to assist the user in the formulation of a new request in the context of a user session (e.g., by displaying them as default values in the respective input fields).
S-CLS-13500	8238	~~B~~ B0	functional	incremental	test			Users shall be able to save the results of Search Requests.
S-CLS-13510	8239	~~B~~ B0	functional	incremental	test			Users shall be able to retrieve saved Search Results, delete items from the Search Result, and save the modified result.
S-CLS-13520	8240	~~B~~ B0	functional	incremental	test			Users shall be able to save selected portions of a Search Result.
S-CLS-13530	8241	~~B~~ B0	functional	incremental	test			Users shall be able to combine Search Results.
S-CLS-13540	10219	~~B~~ B0	functional	incremental	test			Users shall be able to select Data Granules from multiple saved Search Results and submit a single Product Request for these Data Granules.
S-CLS-13550	8243	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to search Production History on any combination of Production History Metadata attributes.
S-CLS-13560	8244	~~B~~ B1	functional	incremental	test			The WKBCH CI shall allow users to search the holdings of ECS using Phenomenological Search Criteria for attributes supported by Data Server Schema.
S-CLS-13580	8245	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to graphically represent data availability for products(s) vs. time.
S-CLS-13590	8246	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to graphically view the temporal extent of Data Granules.
S-CLS-13600	10220	~~B~~ B1	functional	incremental	test			The WKBCH CI shall display the cost estimates for Data specified in Product Requests prior to the submission of the Product Request.
S-CLS-13610	10221	~~B~~ B1	functional	incremental	test			When users submit a Product Request, they shall be given an opportunity to review the total amount that will be billed for the order and

L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
								affirm, cancel or modify the Product Request.
S-CLS-13620	8249	B B0	functional	incremental	test			The WKBCH CI shall provide the capability to visualize Data Products as continuous forward animation.
S-CLS-13630	8250	B B0	functional	incremental	test			The WKBCH CI shall provide the capability to visualize Data Products as single step forward animation.
S-CLS-13640	8251	B B0	functional	incremental	test			The WKBCH CI shall provide the capability to visualize Data Products as single step backward animation.
S-CLS-13650	8252	B B0	functional	incremental	test			The WKBCH CI shall provide the capability to visualize Data Products as oscillating animation (i.e., continuous forward then continuous backward, alternating throughout the loop until user-directed termination).
S-CLS-13660	8253	B B0	functional	incremental	test			The WKBCH CI shall provide users the capability to change the minimum/maximum values of the color tables for visualization of Data Products.
S-CLS-13670	8254	B B0	functional	incremental	test			The WKBCH CI shall provide users the capability to modify color palettes for visualization of Data Products.
S-CLS-13680	8255	B B0	functional	incremental	test			The WKBCH CI shall allow users to access the Data Dictionary Service.
S-CLS-13700	8256	B B0	functional	incremental	test			Overlays provided for display to users shall be continuous over the entire display area, regardless of any gaps in the science data, for data following HDF-EOS geolocation conventions.
S-CLS-13730	8257	B B0	functional	incremental	test			Users shall be able to request an update of the status of a previously submitted Search Request.
S-CLS-13740	8258	B B0	functional	incremental	test			Users shall be able to request that the workbench poll the status of a Search Request at a user selectable time interval.
S-CLS-13750	8259	B B1	functional	incremental	test			The WKBCH CI shall provide users the capability to submit Subscription Requests which request a periodic search for new documents meeting user specified search conditions. All

L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
								search conditions supported by the document search user interface shall be allowed in this context.
S-CLS-13760	8260	B~~ B1~~	functional	incremental	test			The WKBCH CI shall provide users the capability to issue a Subscription Request for revisions of a given document.
S-CLS-13770	8261	B~~ B1~~	functional	incremental	test			The WKBCH CI shall provide users the capability to issue a Subscription Request for new documents, based on topical keywords.
S-CLS-13780	8262	B~~ B1~~	functional	incremental	test			When submitting Distribution Requests, users shall be able to request inclusion of Universal References to the appropriate documentation for this data, the tools needed to read this data, and an ASCII file describing each of these references.
S-CLS-13790	8263	B~~ B0~~	functional	incremental	test			The WKBCH CI shall provide users the capability to parameterize ASTER DARS with ASTER DAR Parameters.
S-CLS-13800	8264	B~~ B1~~	functional	incremental	test			The WKBCH CI shall provide the capability for users to construct a Subscription Request associated with a Data Acquisition Request.
S-CLS-13810	1023 1	B~~ B1~~	functional	incremental	test			The WKBCH CI shall accept user requests for Subscriptions for data and metadata.
S-CLS-13820	8266	B~~ B0~~	functional	incremental	test			The WKBCH CI shall accept Service Requests for changes to existing DARs from the science user.
S-CLS-13830	8267	B~~ B0~~	functional	incremental	test			The WKBCH CI shall make ASTER data acquisition schedules and plans accessible to authorized users on request.
S-CLS-13840	8268	B~~ B0~~	functional	incremental	test			The WKBCH CI shall display data acquisition schedules as timelines.
S-CLS-13850	8269	B~~ B0~~	functional	incremental	test			The WKBCH CI shall provide users the capability to access the Guide during DAR formulation and submittal.
S-CLS-13860	9578	B~~ B0~~	functional	incremental	test			The WKBCH CI shall provide EOS-AM spacecraft location projections as a reference aid to the creation of ASTER Data Acquisition Requests

Table 1 **Level 4 Class Attribute Change Table**   (RTM of 11/8/96)   CCR 96-1354A

L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
S-CLS-13870	8271	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide visualizations of ASTER instrument nominal view swaths and non-nominal view swaths based on user supplied angle as a reference aid to the creation of ASTER DARs.
S-CLS-13880	8272	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide instrument specific default settings for DAR instrument configurable parameters.
S-CLS-13890	8273	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to view Valid Values for DAR Parameters.
S-CLS-13900	8274	~~B~~ B0	functional	incremental	test			The WKBCH CI shall constraint check and validate DAR Parameters.
S-CLS-13920	8275	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide DAR Disposition in response to the submittal of a DAR. This may be e-mail notification.
S-CLS-13930	8276	~~B~~ B0	functional	incremental	test			The WKBCH CI shall be expandable to make accessible to authorized users the current data acquisition schedules and plans for U.S. instruments on foreign spacecraft for the IP Information Management System or an equivalent IP facility.
S-CLS-13940	8277	~~B~~ B1	functional	incremental	test			The WKBCH CI shall display DAR status when requested by users.
S-CLS-13950	8278	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide the user the capability to view the Data Requests recorded in the User Session Log.
S-CLS-13960	8279	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide the user the capability to view the DARs recorded in the User Session Log.
S-CLS-13980	8280	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide a legend describing the display of a Data Product, in each window in which a Data Product is displayed.
S-CLS-13990	9551	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to view resulting selection area on a map when a lat/lon selection is typed in for a search.
S-CLS-		~~B~~	functional	incremental	test			The WKBCH CI shall provide a user interface

L4 id	req_key	rel	req_type	req_status	ver_met	ver_status	clarification	text
14000	8282	~~B~~ B0						that indicates changes in status of an iconified window (e.g., additional results inserted into window).
S-CLS-14010	8283	~~B~~ B0	functional	incremental	test			The WKBCH CI shall prompt the user to save his/her edits when the user quits the editing of workbench objects (e.g., a Result Set or a Guide document), if there are any unsaved edits.
S-CLS-14030	10222	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to retrieve any previously saved Product Request parameters into a new Product Request, edit the parameters, save the modified parameters, and/or submit the new Product Request.
S-CLS-14200	8286	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide the capability to retrieve User Comments based on author, subject and date/time.
S-CLS-14230	8287	~~B~~ B0	functional	incremental	test			The DESKT CI shall provide the capability for a user to issue a Distribution Status Request for a previously submitted Distribution Request and receive Distribution Request Status as a result.
S-CLS-14240	8288	~~B~~ B1	functional	incremental	test			The DESKT CI shall issue periodic Distribution Status Requests for a user-specified Distribution Request, at time intervals specified by the user.
S-CLS-14250	8289	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to issue a Status Request to determine the status of any active Service Request.
S-CLS-14400	8290	~~B~~ B0	functional	incremental	test			Time-related data for DARs shall be synchronized so that selection of a time range on a DAR timeline tool will be translated into date/time ranges in a DAR submission window.
S-CLS-14410	8291	~~B~~ B0	functional	incremental	test			Time-related data for DARs shall be synchronized so that typing a date/time range in a DAR submission window will be graphically display as a blocked out time range on a DAR timeline window.
S-CLS-14420	8292	~~B~~ B0	functional	incremental	test			Geographic selection criteria for DARs shall be synchronized so that selection of an area on a DAR map display will be translated into lat/lon

Table 1 **Level 4 Class Attribute Change Table**   (RTM of 11/8/96)   CCR 96-1354A

L4 id	req_key	rel	req_type	req_status	ver_met	ver_status	clarification	text
								coordinates in a DAR submissions window.
S-CLS-14430	8293	~~B~~ B0	functional	incremental	test			Geographic selection criteria for DARs shall be synchronized so that typing lat/lon coordinates in a DAR submission window will be graphically displayed as a blocked out area on a DAR map display.
S-CLS-14440	8294	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to retrieve any previously saved DAR parameters into a new DAR, edit the parameters, save the modified parameters, and/or submit the new DAR.
S-CLS-14450	8295	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide the capability for users to construct a Product Request associated with a DAR.
S-CLS-14460	8296	~~B~~ B0	functional	incremental	test			The WKBCH CI shall make spacecraft schedules accessible to authorized users on request.
S-CLS-14470	8297	~~B~~ B0	functional	incremental	test			The WKBCH CI shall display spacecraft schedules as timelines.
S-CLS-14480	10223	~~B~~ B0	functional	incremental	test			Time-related data for a Search Request shall be synchronized so that selection of a time range on a Search Request timeline tool will be translated into date/time ranges in a Search Request submission window.
S-CLS-14490	10224	~~B~~ B0	functional	incremental	test			Time-related data for a Search Request shall be synchronized so that a date/time range typed in a Search Request window will be graphically display as a blocked out time range on a Search Request timeline window.
S-CLS-14500	10225	~~B~~ B0	functional	incremental	test			Geographic selection criteria for a Search Request shall be synchronized so that selection of an area on a Search Request map display will be translated into lat/lon coordinates in a Search Request submissions window.
S-CLS-14510	10226	~~B~~ B0	functional	incremental	test			Geographic selection criteria for a Search shall be synchronized so that typed lat/lon coordinates in a Search Request submission window will be graphically displayed as a blocked out area on a Search Request map display.

Table 1 **Level 4 Class Attribute Change Table**   (RTM of 11/8/96)   CCR 96-1354A

L4 id	req_key	rel	req_type	req_status	ver_met	ver_status	clarification	text
S-CLS-14520	8302	~~B~~ B0	functional	incremental	test			For WKBCH CI screens requiring user input, optional fields shall be distinguished from mandatory fields.
S-CLS-14530	8303	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users access to Data Definitions of the following information at a minimum : a._Earth Science Data Types and services descriptions b._core metadata attribute definitions c._valid values d._synonyms for valid values e._product specific metadata
S-CLS-14540	8304	~~B~~ B0	functional	incremental	test			Standard Product related Metadata accesible to users shall include keywords and glossary from investigators.
S-CLS-14550	8305	~~B~~ B0	functional	incremental	test			Standard Product related Metadata accessible to users shall include of keywords, synonyms, and glossary for cross-product and cross-directory referencing.
S-CLS-14570	8306	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to relate Phenomenological Search Criteria to Search Criteria containing values for searchable attributes supported in the Data Server Schema.
S-CLS-14580	8307	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users a consistent view of data dictionary entries based on the value given for an attribute.
S-CLS-14590	8308	~~B~~ B0	functional	incremental	test			The WKBCH CI shall have the capability to send to the Data Dictionary CI, data dictionary information requests, consisting of any combination of the following: Earth Science Data Types, Core Metadata attribute, Product Specific Metadata.
S-CLS-14600	8309	~~B~~ B0	interface	incremental	test			The WKBCH CI shall have the capability to receive from the Data Dictionary CI
S-CLS-15660	8310	~~B~~ B0	interface	incremental	test			The WKBCH CI shall be capable of receiving data products electronically.
S-CLS-		~~B~~	functional		dem			The WKBCH CI executables shall run on the

Table 1 **Level 4 Class Attribute Change Table**   (RTM of 11/8/96)   CCR 96-1354A

L4 id	req_key	rel	req_type	req_status	ver_met	ver_status	clarification	text
15682	9770	<u>B0</u>			o			following hosts: a. DEC Digital Unix 4.0 b. HP UX 10.01 c. SGI IRIX 6.2 (64 bit) d. IBM RS/6000 AIX 4.1
S-CLS-15760	8312	~~B~~ <u>B0</u>	security	incremental	test			The WKBCH CI shall restrict users' access to data and services for which the users lack sufficient priviledges.
S-CLS-15770	8313	~~B~~ <u>B1</u>	interface	incremental	test			The WKBCH CI shall provide the user the predicted time for resumption of ECS services which are temporarily unavailable.
S-CLS-15810	8315	B	functional	incremental	test			The DESKT CI shall provide a menu tree diagram
S-CLS-15820	8316	~~B~~ <u>B0</u>	interface	incremental	test			The WKBCH CI shall provide users the amount of data expected to be returned as the result of a product request.
S-CLS-15830	10227	B	functional	incremental	test			Data Distribution Instructions for Product Requests shall contain requester identification, data type, data set identifier, data formats, distribution and media instructions, request priority, suggested earliest start time,and suggested latest completion time.
S-CLS-15850	8319	~~B~~ <u>B1</u>	interface	incremental	test			The WKBCH CI shall display conflict resolution information from the SMC.
S-CLS-15860	10228	~~B~~ <u>B1</u>	functional	incremental	test			Conflict resolution information for Product Requests shall contain request identification, data type, priority modifications, account balance modifications, information on when request will be serviced, and SMC contact point.
S-CLS-15870	8321	~~B~~ <u>B1</u>	functional	incremental	test			The WKBCH CI shall provide applications program interfaces to provide support of DAAC specific data analysis utilities.
S-CLS-15880	8322	~~B~~ <u>B1</u>	functional	incremental	test			The WKBCH CI shall provide applications program interfaces to support development of DAAC unique metadata search and access services that will operate independent of the delivered ECS services.
S-CLS-		~~B~~	functional	incremental	test			The WKBCH CI map displays shall provide the

L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
15890	8323	~~B0~~						following types of geographic data sets for background reference: land/oceans, major lakes, major rivers, mountain ranges, volcanoes, major highways and railroads, urban and built-up areas, and political boundaries.
S-CLS-15900	8324	~~B~~ B0	functional	incremental	test			The WKBCH CI shall support multiple addresses for product requests, which include mailing address, billing address and shipping address.
S-CLS-15910	8325	~~B~~ B0	functional	incremental	test			The ~~DESKT~~ WKBCHCI shall have the capability to prompt the user for confirmation when a user attempts addition, modification or deletion of an object.
S-CLS-15920	8326	~~B~~ B0	functional	incremental	test			The Client Visualization Tool shall support display of multiple images.
S-CLS-15940	8327	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide users the capability to search for global granules.
S-CLS-15950	8328	~~B~~ B1	functional	incremental	test			The WKBCH CI shall provide users the capability to set thresholds for the number of results returned from a query.
S-CLS-15970	8329	~~B~~ B0	functional	incremental	test			The WKBCH CI shall be able to accept and display Notifications of events associated with subscriptions.
S-CLS-15980	8330	~~B~~ B0	functional	incremental	test			The WKBCH CI shall provide a capability for users to submit software and related documents.
S-CLS-15990	8331	~~B~~ B0	interface	incremental	test			The WKBCH CI shall send DARs for ASTER observational sequences to the ASTER GDS.
S-CLS-16000	8332	~~B~~ B1	interface	incremental	test			The WKBCH CI shall provide a capability for users to request status of ASTER DARs.
S-CLS-16010	8333	~~B~~ B1	interface	incremental	test			The WKBCH CI shall be capable of displaying the status of ASTER DARs to the user.
S-CLS-17100	9867	~~B~~ B0	functional	approved	test			WKBCH CI mode-specific applications shall access data only for the mode in which the application is configured.
S-CLS-17110	9868	~~B~~ B0	functional	approved	test			The WKBCH CI shall include the mode identifier in activity log record entries for cost and accounting data.
S-CLS-		~~B~~	functional	approved	test			WKBCH CI mode-specific applications shall be

Table 1 **Level 4 Class Attribute Change Table**   (RTM of 11/8/96)   CCR 96-1354A

L4 id	req_ key	rel	req_type	req_status	ver_ met	ver_st atus	clarification	text
17140	9869	~~B~~ B0						capable of simultaneous execution in different modes on the same machine.
S-CLS-17150	9870	~~B~~ B0	functional	approved	test			WKBCH CI mode-specific applications shall be capable of simultaneous execution in different modes on different machines.
S-CLS-17160	9871	~~B~~ B0	functional	approved	test			WKBCH CI server applications shall register within their mode-associated namespace in the CSS name service.
S-CLS-17170	9872	~~B~~ B0	functional	approved	test			WKBCH CI client applications shall incorporate a mode-identifier for CSS name service lookups.
S-CLS-17180	9873	~~B~~ B0	functional	approved	test			The WKBCH CI shall be capable of using simulated time values supplied by CSS when executing in a non-production mode.
S-CLS-17190	9874	~~B~~ B0	functional	approved	test			WKBCH CI mode-specific executables and scripts shall accept a specific mode only at startup.